

Synthetic Zeolites: (Cont.)

SOV/6246

COVERAGE: The book is a collection of reports presented at the First Conference on Zeolites, held in Leningrad 16 through 19 March 1961 at the Leningrad Technological Institute imeni Lensovet, and is purportedly the first monograph on this subject. The reports are grouped into 3 subject areas: 1) theoretical problems of adsorption on various types of zeolites and methods for their investigation, 2) the production of zeolites, and 3) application of zeolites. No personalities are mentioned. References follow individual articles.

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Zeolites 267

Card ~~13/42~~ 3/3

MALYUSOV, V.A.; UMER, E.N.; GLAZUNOV, D.N.

Multistage column with a rotating wheel for molecular distillation. Zav.lab. 28 no.6:752-753 '62. (MIRA 15:5)

1. Nauchno Issledovatel'skiy fiziko-khimicheskiy institut imeni L.Ya Karpova.

(Distillation apparatus)

UMNIK, N.N.; MALYUSOV, V.A.

Separation of binary multicomponent mixtures by multistage molecular distillation. Khim.prom. no.9:694-699 S '63. (MIRA 16:12)

UMNIKOV, S. D., Cand Agr Sci -- (diss) "Methods for the spacing of tubers in the square-cornered nesting of potatoes." Leningrad-Pushkin, 1960. 16 pp; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst); 250 copies; price not given; (KL, 17-60, 164)

UMNIKOVA, V.A.; ZHIGAYEV, G.N., kand.sel'skokhoz.nauk

Brief information. Zashch. rast. ot vred. i bol. 7 no.11:37-52  
N 162. (MIRA 16:7)

1. Agronom po zashchity rasteniy Sovetskogo rayona, Saratovskoy oblasti (for Umnikoga). 2. Ukrainskiy institut zashchity rasteniy (for Zhigayev).

PAVLOV, A.N., otv. za vypusk; VOLODICHEVA, V.N.; IVANOVA, A.I.; KULAKOV, I.N.; LYAMINA, T.N.; MIT'KINA, L.I.; POZDNYAKOVA, N.P.; RODIONOVA, L.I.; ROMANOVA, N.M.; SOFIYEV, E.S.; CHICHKINA, A.A.; TRESORUKOVA, Z.G.; BOGATYREV, P.P.; BROVKINA, A.I.; IVANOVA, L.D.; IVASHKIN, G.A.; KAMNEV, N.I.; LYSANOVA, L.A.; OZHEREL'YEVA, Z.I.; PAVLOVA, T.I.; TYUFYUNOVA, M.I.; UMHITSYNA, A.P.; ZHIVILIN, N.N.; ALESHICHEV, M.P.; VINOGRADOV, V.I.; YEREMIN, F.S.; KRAVCHENKO, Ye.P.; LOVACHEVA, M.V.; NIKOL'SKAYA, V.S.; MAKHOV, G.I.; SKEGINA, A.V.; TAREYEV, A.V.; KHOLINA, A.V.; BRYANSKIY, A.M.; BURMISTROVA, V.D.; GRIGOR'YEVA, A.M.; LUTSENKO, A.I.; OREKHOVA, Z.V.; TEPLINSKAYA, N.V.; PROKTISTOVA, V.I.; BUTORIN, I.M.; BOCHKAREVA, L.D.; BURENINA, V.A.; VETUSHKO, A.M.; VIKHLYAYEV, A.A.; SOROKIN, B.S.; TSYBENKO, L.T.; KHEBNIKOV, V.N.; DUMNOV, D.I.; STEPANOVA, V.A.; MANYAKIN, V.I., red.; VAKHATOV, A.M.; MAKAROVA, O.K., red.izd-va; PYATAKOVA, N.D., tekhn.red.

[Soviet agriculture; a statistical manual] Sel'skoe khoziaistvo SSSR; statisticheskii sbornik. Moskva, 1960. 665 p.

(MIRA 13:5)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye upravleniye. 2. Upravleniye statistiki sel'skogo khozyaystva Tsentral'nogo statisticheskogo upravleniya SSSR (for all except Makarova, Pyatakova).

(Agriculture--Statistics)

UMNJAGIN, M.G. [Umnyagin, M.G.]

Complex mechanization and automation in heavy machinery industry.  
Tech praca 14 no.3:165-171 Mr '62.

1. Reditel Vsesvazovoho projekcne-technologickeho ustavu tezkeho  
strojirenstvi, Moskva.



1. UMNOV, A.
2. USSR (600)
4. Collective Farms - Accounting
7. Calculating the distribution of monetary income in the collective farm. Kolkh. proizv. 12, no. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

UMNOV, A., predsdatel'.

We are helping workers increase their skills. V pom.profaktivu 14 no.16:  
23-25 Ag '53. (MLRA 6:7)

1. Komitet profsoyusa mekhanicheskogo tsakha Gomel'skogo stankostroitel'-  
nogo zavoda imeni Kirova. (Efficiency, Industrial)

USSR / Farm Animals. The Honeybee. Q

Abs Jour: Ref Zhur-Biol, No 5, 1959, 21342.

Author : Umov, A.

Inst : Not given.

Title : The Origin of Apiculture in the Kurganskaya Oblast.

Orig Pub: S. kh. Sibiri, 1958, No 6, 99-100.

Abstract: Apiculture originated in the above-mentioned  
Siberian oblast at the end of the last century.

Card 1/1

*Umnoy, D*

✓ Further Contribution to the Spectrum of the Bessemer  
Flame. K. S. Garger, D. Umnoy and G. D. Krivulya.  
(Izvest. Akad. Nauk SSSR, Seriya Fiz, 1955, 19, (2), 180-188).  
Lines in the spectrum are shown and identified from 3960-  
5500Å. Photoelectric observation of the changes in the  
flame is possible.

3

TISHCHENKO, V.I.; LIZICHENKO, H.Y.; MARSH, H.I.; PEROV, G.Ye.

The No.13 station of the "Siminka-Kapitel'noy" line has set the record by mining 33,512 tons of coal from under a single shift (MIRA 1842) 30 no.1245-7 0 '64.

3. Shakhba "Siminka-Kapitel'noy" krasa Prokopyevskogo, Kuzbass.

TISHCHENKO, V.M.; D'YACHENKO, N.Z.; DOTSENKO, I.I.; PLAKSIN, A.A.; BANSHCHIKOV,  
V.I.; UMNOV, G.Ye.

New record set by the V.I.Banshchikov brigade of mining 60,144 tons  
of coal from under a shield in one month. Ugol' 40 no.2:8-11 F '65.  
(MIRA 18:4)

1. Shakhta "Ziminka-Kapital'naya" Kuznetskogo basseyna.

Umnov, G. Z.

137-1958-1-107

Translation from: Referativnyy zhurnal Metallurgiya. 1958. Nr 1 p 17 (USSR)

AUTHOR: Umnov, G. Z.

TITLE: Dredging Experience in the Magadan Region (Opyt drazhnykh  
rabot v Magadarskoy oblasti)

PERIODICAL: Kolyma, 1956, Nr 4, pp 20-25

ABSTRACT: Experience in the thawing of frozen ground at the Chay-Ur'insk and Omchak dredging areas, preliminary stripping of peat successfully performed at the Gastello placer, assembly and operation of dredges, winter mothballing of dredges, and the economics of dredge operations are described. The method of working alluvial deposits at Dal'stroy enterprises with consideration of current progress in the techniques and processes of mining permits the conclusion to be drawn that under appropriate conditions of mining geology uniform employment of heavy equipment (210-380 liter dredges) is the most economical and productive method for use in open workings.

A. Sh.

Card 1/1 1. Dredges--Operation 2. Mining industry--Equipment--USSR

*Umnov, G. Z.*

137-1958-1-90

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 16 (USSR)

AUTHOR: Umnov, G. Z.

TITLE: Let us Guarantee That All Dredgers Are Used to Full Capacity  
(Obespechim rabotu vseh drag na polnuyu moshchnost')

PERIODICAL: Kolyma, 1957, Nr 5, pp 12-13

ABSTRACT: Preparations for the washing season at the Chkalov placer of  
the Western Mining Administration are described.

A. Sh.

1. Mines--Equipment 2. Dredges--Applications

Card 1/1



GURVICH, I.B.; IVANOV, N.M.; UMNOV, I.A.; SHNEYDER, G.K.

Raising technical and economic indices for bottom-valve carburetor engines. Avt. prom. no.1:9-14 Ja '58. (WIRA 11:2)

1. Gor'kovskiy avtozavod.  
(Automobiles--Engines)

12(2

SOV/113-59-6-10/21

AUTHOR: Yegorova, A.P., Umnov, I.A., Meshcheryakov, I.G., Gurvich, I.B., Candidate of Technical Sciences

TITLE: The Temperature Field of Crankshaft Bearings

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 6, pp 29-31 (USSR)

ABSTRACT: The article describes tests carried out at the Gor'kiy Automobile Plant to establish the influence of various factors on the temperature field of the crankshaft bearings of M-20 and M-21A four-cylinder engines. Reference is made to similar tests carried out by the MVTU imeni Bauman on the crankshaft bearings of a GAZ-51 in 1948. The influence of the rpm, engine load and viscosity of the oil on the bearings is shown in Figure 2. Speed is seen to be the biggest factor, as every 500 rpm increases the temperature of the bearings from 12° at low rpm to 22° at maximum rpm. The addition of 2% colloidal

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SCV/113-59-6-10/21

### The Temperature Field of Crankshaft Bearings

graphite to the SU machine oil used reduced the temperature by 6-12% in the M-21A and not more than 6% in the M-20 (Figure 3). The effect of the oil pressure (Figure 4) is given; reduction of the oil pressure from 3 to 2 kg/cm<sup>2</sup> increased the temperature of the bearings by 3-7% in the M-21-A but had no effect in the M-20. It is shown in Figure 5 how opening the throttle increases the temperature even though the rpm are constant. The crankshafts of both engines were then revolved hot and cold to find the effect of the combustion on the bearing temperature. No change was observed in the M-20 but there was an increase of 1-3% in the M-21-A. The deterioration in the hardness of tellurous babbitts due to increased temperature is shown; the figures are 18.1 H<sub>B</sub> at 20°C and 4.92 at 150°C. To reduce the temperature of the bearings

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The Temperature Field of Crankshaft Bearings

the following measures are recommended: use of low-viscosity oil during running-in and normal use; addition of colloidal graphite, etc.; increase of oil pressure. There are 4 diagrams, 1 graph and 1 table.

ASSOCIATION: Gor'kovskiy avtozavod (Gor'kiy Automobile Plant)

Card 3/3

Umnov, M. P. .

7742 Amerikanskaya Balaga Babochka - Novyi Vostok. M. Rastomiy  
Kishcheknev, Gosizdat Kolkhozov, 1955. 57 s. 300. 20  
Sn. 3.000 KHZ. Lespl. (5-4-10) P 500. 6

SO. Knizhnaya Letopis', Vol. 7, 1955

UMNOV, M.P.

New plant pest in Europe, the fall webworm (*Hyphantria cunea* Drury).  
Zool.shur. 34 no.6:1292-1314 H-D '55. (MLRA 9:1)

1. Tsentral'naya laboratoriya po karantinu sel'skokhozyaystvennykh  
rasteniy Ministerstva sel'skogo khozyastva SSSR.

(Fall webworm)

USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6828.

Author : ~~Imnov, M. P.~~

Inst : Not given.

Title : The Japanese Bark Beetle - a very Dangerous Forest Pest.

Orig Pub: Lesn. kh-vo, 1956, No 11, 46-47.

Abstract: *Xylosandrus germanus* is found in Japan, Korea and on Taiwan. It was brought in the USA in 1932, where it spread widely. This bark beetle was discovered in 1952 in Germany in the region of the city of Darmstadt, and in 1954 in 24 new places. Here it inhabited the beech, oak, birch, white acacia white beech and the plane maple trees, rarer elm, walnut, fir and pine trees (mostly on absolutely healthy trees); it was also found on

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USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6828.

Abstract: lumber in warehouses. It had two to three hatchings. The larvae developed in the wood of the trunk and branches. The beetle was described; it was similar to the unpaired, and the unpaired omnivorous bark beetles. The females ejected from the passages in the first 4-5 days a flour-like white powder, afterward pressed into icicles, which hung at the entrance to the passages and then fell to the ground; by these icicles it was easy to discover the plants inhabited by the beetles. This dangerous pest was subjected by the quarantine inspection to observation. -- A. P. Adrianov.

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KOULA, Vatslav [Koula, Václav], doktor, inzh.; DURASOVA, Milada, inzh.;  
UMNOV, M.P., kand. sel'skokhozyaystvennykh nauk, [translator];;  
DUNSKIY, V.P., red.; BELEVA, M.A., tekhn. red.

[Aerosols in plant protection] Aerozoli v zashchite rastenii.  
Moskva, Izd-vo inostr. lit-ry, 1957. 117 p. [Translated from the  
Czech]. (MIRA 11:11)

(Aerosols)  
(Spraying and dusting in agriculture)

Umnov, M.P.

USSR/Plant Diseases - Diseases of Cultivated Plants.

0-2

Abstr Jour : Ref Zhur - Biol., No 3, 1953, 11228

Author : Umnov, M.P.

Inst :                     

Title : The Use of Dinitrophenol in Czechoslovakia to  
Identify the Sources of Potato Cancer.

Orig Pub : Zashchita rast. ot vreditel. i bolezney. 1957, No 4, 51

Abstract : No abstract.

Card 1/1

4 M NOV, M.P.

UMNOV, M.P., kandidat sel'skokhozyaystvennykh nauk.

With the aid of aerosols. Nauka i pered.op.v sel'khoz. 7  
no.6:74-75 Je '57. (MIRA 10:7)  
(Czechoslovakia--Potato beetle) (Aerosols)

IMNOV. N.P., kandidat sel'skokhozyaystvennykh nauk.

Attacks of new pests on the agriculture of Europe. Priroda 46  
no.7:43-50 J1 '57. (MIRA 10:8)

1. Tsentral'naya laboratoriya po karantinu sel'skokhozyaystvennykh  
rasteniy, Moskva.

(Europe--Agricultural pests)

RATAY, Karel [Rataj Karel]; UMNOV, M.P. [translator]; GUNAR, I.I., red.;  
KLIMENKO, S.V., techn. red.

[Chemical control of weeds in flax] [Translated from the Czech]  
Khimicheskaya bor'ba s sorniakami v posevakh l'na. Pod red. I.I.  
Gunara. Moskva, Izd-vo inostr. lit-ry, 1958. 122 p. (MIRA 11:10)  
(Weed control) (Flax)

COUNTRY : USSR  
CATEGORY :

P-5

ABST. JOUR. : RZBiol., No. 19, 1958, No. 89705

AUTHOR : Umnov, M. P.

INST. :  
TITLE : The American White Moth and Its Control in  
Europe. [Fall Web-worm, *hyphantria cunea*].  
(A review).

ORIG. PUB. : Sb. in. s.kn. Inform., 1958, No 4, 22-28

ABSTRACT : No abstract.

CARD:

UMNOV, M.P.

Schistocerca in Turkmenistan. Zashch. rast. ot vred. i bol. 3  
no.5:41 S-O '58. (MIRA 11:10)  
(Turkmenistan--Locusts)

УМНОВ, М.П.  
UMNOV, M.P.

Determining the time of appearance of different metamorphic stages  
of insect pests [with summary in English]. Zool. zhur. 37 no.1:27-  
33 Ja '58. (MIRA 11:2)

1. Tsentral'naya laboratoriya po karantinu sel'skokhozyaystvennykh  
rasteniy Ministerstva sel'skogo khozyaystva SSSR, Moskva.  
(Insects, Injurious and beneficial)  
(Temperature--Physiological effect)



-USSR / General and Special Zoology. Insects. Harmful P  
Insects and Mites. General Problems.

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2248.

Author : Umnov, M. P.

Inst : Not given.

Title : Contribution to the Problem of Indications of  
the Appearance of the Stages of Insect Pests.

Orig Pub: Zool. zh., 1958, 37, No 1, 27-33.

Abstract: In thermostatic experiments of the pupal stage development of *Hyphantria cunea* Drury begins at temperatures of more than 16° and requires in all 200° of effective temperatures. These data correspond to the development stages of summer pupae in nature. But in the spring the butterflies emerge from the hibernated pupae at a lower

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USSR / General and Special Zoology. Insects. Harmful P  
Insects and Mites. General Problems.

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2248.

Abstract: sum of effective temperatures ( $157^{\circ}$ - $181^{\circ}$ ).  
However, calculating the average daily temperature from the hourly temperatures, the true sum of effective temperatures ( $183.4$ - $206.5^{\circ}$ ) is close to the experimental; that is, similar temperature conditions are necessary for the development of hibernated and summer pupae. The organization of observations by the hour is difficult and their processing is involved. The author suggested that the sum of effective temperatures be calculated by means of summing up the average daily temperatures, but that the value of "the threshold of development" be lowered from  $10^{\circ}$  to  $9^{\circ}$ ; one degree compensates for the heat, not

Card 2/3

15

USSR / General and Special Zoology. Insects. Harmful <sup>2</sup>  
Insects and Mites. General Problems.

Abs Jour: Ref Zhur-Biol., No 1, 1959, 2248.

Abstract: taken into account when the average daily temperatures above 10° were summed up. The sums of the effective temperatures are very close to 2000°, which were calculated (according to actual data in Zakarpatskaya Oblast' for 1953-1957) when the relative threshold of development was 9°. -- A. P. Adrianov.

Card 3/3

UMNOV, M.P.

New organic fungicides. Zashch.rast.ot vred.i bol. 5 no.3154  
Mr '60. (MIRA 16:1)  
(Fungicides)

UMNOV, M.P.

"Prognosis and diagnosis in plant protection " by Mirosława  
Drachowska-Sińska. Reviewed by M.P. Umnov. Zashch.  
rast. ot vred. i bol. 5 no. 8:62 Ag '60. (MIRA 13:12)  
(Plants, Protection of) (Drachowska-Sińska, Mirosława)

KOULA, V., doktor; UMNOV, M.P. [translator]

Pesticide aerosols in Czechoslovakia. Zashch. rast. ot vred. 1  
bol. 8 no.8:51-54 Ag '63. (MIRA 16:10)

1. Nauchno-issledovatel'skiy institut rasteniyevodstva, Praga (for  
Koula).

GRUSHKA, Yaroslav [Hruska, Jaroslav, deceased]. Primal  
uchastiye STEPANOV, V.N., prof.; UMNOV, M.P.[translator];  
FOL'KMAN, Ye.N., red.

[A monograph about corn. Translated from the Czech] Mono-  
grafiia o kukuruze. Moskva, Kolos, 1965. 750 p.  
(MIRA 18:7)

COUNTRY : USSR  
CATEGORY :

M-1,

ABST. JOUR. : RZBiol., No. 77 1959, No. 27024

AUTHOR : Umnov, N.  
INST. :  
TITLE : Corn in the Tannirs.

ORIG. PUB. : Kuznetsov, 1957, No 6, 53

ABSTRACT : In the Gorno-Badakhshanskaya Oblast', on elevations of up to 3200 m, corn is successfully grown on collective farms, with high yields, not only of green feed but also of ears in the milk stage of maturity.

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ZHURAVLEV, V., inzh.; UMNOV, N., inzh.

Two scrapers. Mast. ugl. 8 no.5:14 My '59. (MIRA 12:8)  
(Coal mines and mining---Equipment and supplies)

TORBIN, I.; NIKOL'SKIY, K.; UMNOV, H.

Provide collective and state farms with high-quality seed corn.  
Muk.-elev. prom. 25 no.8:6-8 Ag '59. (MIRA 13:1)

1. Krasnodarskoye krayevoye upravleniye khleboproduktov.  
(Corn (Maize))

30(1)  
 AUTHOR: Umnov, N.N., Honored Agronomist of SOV/99-59-11-12/15  
 Tadjik SSR  
 TITLE: Irrigation in Mountainous Badakhshan  
 PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 11, pp 53-55  
 (USSR)  
 ABSTRACT: This article deals with agriculture, and primarily with construction of canals and irrigation in the Gorno-Badakhshan Autonomous Oblast' of the Tadjik SSR. The author briefly and interestingly reviews the climatic and natural features of this mountainous region, as well as the state of agriculture and irrigation, with particular reference to the pre-revolutionary period. Mentioned in this connection is Marod-Ali Safojev, a Shugnanets and local builder of aqueducts. In this oblast', states the author, special attention is devoted to the construction of irrigation facilities at the collective farms as the basic condition for the further growth of the economy. Reference is made to the Barzud-Derzudskiy Canal (Fig 1), 14 km long at an altitude of 3100 meters, feeding the Rushan valley (Rushan rayon), as well as the Tupkhon Canal in the Ishkashim rayon, completed in the autumn

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# Irrigation in Mountainous Badakhshan

of 1958; this canal provides irrigation for the "Put' Kommunizma" collective farm which grows winter wheat, legumes, corn, potatoes and alfalfa as high as 3650m above sea level. Briefly described is a 70,000 hectare section of the mountainous Alay valley, lying in Kirgiz territory between the Alay and Zaalay ranges, but used by the Pamir folk of Badakhshan; collective farms of the Murgab, Shugnan and Ishkashim rayons (Gorno-Badakhshan AO) are converting this land for livestock raising; three canals have been built here, and this year, states the author, 2000 hectares of virgin land was planted to cereal grain, and work on water supply to 4000 hectares of pasture land was done. A note on canal construction in the Pamir is presented. In all rayony of the oblast' dozens of canals, totalling 1500 km, have been built which has made possible a seven-fold expansion of the sown area since 1925; the irrigated lands are used for cultivation of winter wheat, corn, potatoes, vegetables. Present grain yields have reached

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# Irrigation in Mountainous Badakhshan

ched 14-19 (metric) centners per hectare as opposed to yields of 4-5 centners before the revolution. Livestock raising, gardening and agriculture are developing in the Pamir; for the first 8 months of 1959 agricultural income for each of more than half of the oblast' collective farms was 1.5 to 4 million rubles. A large program of canal building is presently underway, states the author: in western Pamir the Selektsionnyy dasht and Isor (Ishkashim rayon) canals, on the Derzud Islands and in the Vomar flood lands (Rushan rayon), in eastern Pamir, and canals in the Rang-Kul' Lake region. In the mountain plateau of eastern Pamir a network of wells for yak and sheep farms is under construction. An excavator station, the first in the Pamir, has been set up in connection with the irrigation construction program of the Seven-Year Plan, and in 1959 additional automobiles, excavators, S-80 bulldozers, compressors, cranes and mobile technical shops were received. The following persons are mentioned: S.F. Prudnikov, irrigation worker, and Balkhov, Shabozkhonov, Khil'.

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SOV/99-50-11-12/15

Irrigation in Mountainous Badakhshan

vatshayev, Mirzobekov, and Shodavlyatov, irrigation technicians. There is 1 photograph and 1 Soviet reference.

Card 4/4

DUDA, Ye.G., gornyy inzh. (g.Kemerovo); ZHURAVLEV, V.N., gornyy inzh.  
(g.Kemerovo); UMNOV, N.R., gorn.inzh. (g.Kemerovo)

Some problems of exploiting open-pit coal mines in the  
Kuznetsk Basin. Ugol' 34 no.3:8-9 Mr '59. (MIRA 12:5)  
(Kuznetsk Basin--Coal mines and mining)  
(Strip mining)

DUDA, Ye.G., gornyy inzh.; ZHURAVLEV, V.N., gornyy inzh.; UMNOV, N.R.,  
gornyy inzh.

Utilization and capacity of the excavator fleet in Kuznetsk  
Basin open-pit mines. Ugol' 34 no.7:21 J1 '59.  
(MIRA 12:10)

1. KuzNIIShakhtostroy.  
(Kuznetsk Basin--Strip mining) (Excavating machinery)



DUDA, Ye.G., inzh.; POPOV, I.N., inzh.; UMNOV, N.R., inzh.

Improving the technology and labor organization of loading  
rock and drilling holes in the sinking of vertical shafts.  
Trudy KuzNIIshakhtostroia no.1:20-30 '63. (MIRA 17:8)

UMNOV, N.R., inzh.; POPOV, I.N., inzh.

SMBU-1 unit for drilling boreholes with multiple drills in shafts.  
Shakht. stroi. 7 no.10:3-6 0 '63. (MIRA 16:10)

1. Institut KuzNIIshakhtostroy.

UMNOV, P

VYATKIN, Ye., assistant; UMNOV, P.

Anchored timbering in the stope. Mast. ugl. 6 no.2:4-6 P '57.  
(MLRA 10:4)

1. Kafedra stroitel'stva gornyykh predpriyatiy Kemerovskogo  
gornogo instituta (for Vyatkin). 2. Nachal'nik gornogo otdela  
kombinata Kuzbassugol' (for Umnov).  
(Kuznetsk Basin--Mine timbering)

UMNOV, P., inzhener.

Temporary, transportable, bolt-fastened supports. Fast. uel. 6  
no.6:6 Je '57. (Mile 10:8)  
(Mine timbering)

UMOV, Pavel Alekseyevich. Prinimali uchastiye: VEDENEYEV, V.A.,  
inzh.; CHLENOV, M.Ya., inzh.; SHALYT, G.M., nauchn. red.;  
MUPKINA, V.G., red.

[Maintenance of municipal electric power distribution net-  
works] Obsluzhivanie gorodskikh elektricheskikh setei. Mo-  
skva, Vysshaia shkola, 1965. 234 p. (MIRA 18:2)

UMNOV, P.I.

Kuznetsk Basin miners struggle to fulfill the seven-year plan.  
Ugol' 37 no.8:10-13 Ag '62. (MIRA 15:9)

1. Nachal'nik tekhnicheskogo upravleniya Kombinata ugol'nykh  
predpriyatiy Kuznetskogo kamennougol'nogo basseyna.  
(Kuznetsk Basin--Coal mines and minina--Labor productivity)

UMNOV, P.I.

First results of using powered supports and machinery units in  
the Kuznetsk Basin. Ugol' 38 no.11:46-48 N '63.

(MIRA 17:9)

1. Nachal'nik tekhnicheskogo upravleniya kombinata Kuzbassugol'.

DROZDETSKIY, Vasil'y Vasil'yevich; UMNOV, P.M., prepod., retsenzent;  
MGALOBlishvili, A.F., zasl. uchitel' Gruz.SSR, retsenzent;  
SANADIRADZE, N.A., prepod., retsenzent; USPENSKIY, A.K., ...

[Mathematical textbook for topographic schools] Posobie po  
matematike dlia topograficheskikh tekhnikumov. Moskva, Izd-  
vo "Nedra," 1964. 335 p. (MIRA 17:7)

1. Tomskiy topograficheskiy tekhnikum (for U.S.S.R.). 2. Tbilis-  
skiy topograficheskiy tekhnikum (for Sanadiradze).



UMNOV, P.S., mostovoy master

Repairing a rectangular culvert. Put' i put. khoz. 8 no. 10:20 '64.  
(MIRA 17:12)

1. Stantsiya Uilyanovsk, Kuybyshevskoy dorogi.

COUNTRY : USSR  
 CATEGORY : Cultivated Plants. Potatoes. Vegetables. M  
 SUBCATEGORY : Cucurbits  
 ASS. JOUR. : Zhurnal., No. 3, 1959; No. 165.  
 AUTHOR : Gusekavich, Yu.; Ushov, V.  
 INST. : Chishminsk Agric.-Meteorological Stat.  
 TITLE : Some observations on potato growth.  
 ORIG. PUB. : S. Kh. Zhurnalii, 1957, No. 16, 36-37  
 ABSTRACT : During the years of 1955 through 1956, the Chishminsk agricultural-meteorological station had studied the effect of moisture in the soil on the potato crop. The greater the reserves were of productive soil moisture, the higher the crop was. After large-scale withering of leaves, there continued the growth of potato tuber which varied yearly from 29 to 39 centners/hectare.  
 -- Ya. A. Ghorolova  
 CARD: 1/1

KOVERDYAYEV, N.S.; POTASKAYEV, S.V.; UMNOV, V.A., inzhener, redaktor;  
MODEL', B.I., tekhnicheskii redaktor

[Meshing elements of bevel gear transmission; reference tables]  
Elementy zatsepleniia konicheskikh zubchatykh peredach; spravochnye  
tablitsy. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry,  
1955. 263 p.

(Gearing, Bevel)

(MLRA 9:3)

ACHERKAN, N.S., doktor tekhnicheskikh nauk, professor, redaktor;  
 BELYAYEV, V.N., kandidat tekhnicheskikh nauk, dotsent;  
 BIDERMAN, V.L., kandidat tekhnicheskikh nauk; BOROVICH, L.S.,  
 kandidat tekhnicheskikh nauk; GASHINSKIY, A.G., inzhener;  
 GORODETSKIY, I.Ye., doktor tekhnicheskikh nauk, professor;  
 IVANOV, B.A., doktor tekhnicheskikh nauk, professor;  
 KOLOMIYTSYEV, A.A., kandidat tekhnicheskikh nauk, dotsent;  
 KRAGEL'SKIY, I.V., doktor tekhnicheskikh nauk, professor;  
 MAZTRIN, I.V., inzhener; NIKOLAYEV, G.A., doktor tekni-  
 cheskikh nauk, professor; PETRUSEVICH, A.I., doktor tekni-  
 cheskikh nauk; POZDNYAKOV, S.N., dotsent; PONOMAREV, S.D.,  
 doktor tekhnicheskikh nauk, professor; PORTUGALOVA, A.A.,  
 kandidat tekhnicheskikh nauk; PRONIN, B.A., kandidat tekni-  
 cheskikh nauk; RESHETOV, D.I., doktor tekhnicheskikh nauk,  
 professor; RESHETOV, L.N., doktor tekhnicheskikh nauk, pro-  
 fessor; SAVERIN, M.A., doktor tekhnicheskikh nauk, professor;  
 SAVERIN, M.M., kandidat tekhnicheskikh nauk; SLOBODKIN, M.S.,  
 inzhener; SPITSYN, N.A., doktor tekhnicheskikh nauk, professor;  
 STOLBIN, G.B., kandidat tekhnicheskikh nauk, dotsent; UMNOV,  
 V.A., inzhener; CHERNYAK, B.Z., kandidat tekhnicheskikh nauk;  
 SHCHEDROV, V.S., kandidat tekhnicheskikh nauk, dotsent.

[Machine parts; collection of materials on calculation and  
 design in two volumes] Detali mashin; sbornik materialov po  
 raschetu i konstruirovaniyu v dvukh knigakh. Izd.2. Moskva,  
 Gos. nauchno-tekhn. izd-vo mashinostroit.i sudostroit.lit-ry.  
 Vol. 2. 1953. 560 p. (MLRA 6:12)  
 (Machinery--Design)

USSR/Chemistry - Spectral analysis

Card 1/1      Pub. 43 - 60/97

Authors      : Garger, K. S., and Umnov, V. D.

Title        : About the spectrum of the Bessemer flame

Periodical   : Izv. AN SSSR. Ser. fiz. 18/2, 279-280, Mar-Apr 1954

Abstract     : The flame spectrum of a Bessemer converter is considered of great importance in connection with the development of spectral methods for the control of Bessemer processes which take place within very short periods of time (8-15 minutes). Using a reconstructed spectrograph styloscope the authors made a detailed investigation of the flame spectra according to separate blast periods of the converter. The results obtained are described.

Institution   : The Arsenichev Evening Metallurgical Institute, Dneprodzershinsk and the F. Dzerzhinskiy State Metallurgical Plant, Dneprovsk

Submitted    : .....



*Umnov, V.D.*

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13089

Author : Garger, K.S., Umnov, V.D., Krivulya, G.D.

Inst : -

Title : Investigation of the Radiation of a Bessemer Flame.

Orig Pub : Sv. tr. Dneprodzerzhinsh, vech. metallurg. in-ta, 1955, 1,  
54-63

Abstract : To clarify the possibility of controlling the Bessemer process by optical methods, complex experiments were performed, including a successive photography of the spectrum of the flame of the converter, its visual observation, and automatic recording of the intensity of radiation in various regions of the spectrum. At the same time, gas and metal samples were taken, the temperature of the flame was measured by an optical pyrometer, and the flow and pressure of air were recorded. It is shown that it is possible to control the course of the process from the

Card 1/2

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 13089

difference in the luminescent and thermal radiation of  
the flame, and with the aid of visual observation of the  
spectrum of the iron.

Bibliography, 12 titles.

Card 2/2



Umnov, V. D.

GARGER, K.S.; UMN OV, V.D.; KRIVULYA, G.D.;

More on the spectrum of the Bessemer flame. Izv.AN SSSR.Ser.fiz.  
19 no.2:186-188 Mr-Apr '55. (MLRA 9:1)

1.Dneprodzershinskiy vecherniy metallurgicheskiy institut imeni  
Arsenicheva.

(Tartu--Spectrum analysis--Congresses)

0012/1700

**POI 107201 1001 1574**

### Üböv. Diversität

Materialy i Vsesoyuznogo soveshchaniya po spektroskopii, 1956.  
b. II: Atomnaya spektroskopiya (Materialy of the 10th All-Union Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy). Moscow, Izdat. Khim., 1957. 304 p. (Series: Itogi nauki i tekhn. [Achievements of Science and Technology]. Ser. Khim. [Chemistry]. Vol. 1(1)). 1,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR.  
Mediterranean.

**Mitiorial Board:** G.S. Landsberg, Academician, (Moscow, M.U.);  
B.B. Repertin, Doctor of Physical and Mathematical Sciences;  
I.L. Pabinskiy, Doctor of Physical and Mathematical Sciences;  
V.A. Pavlovskiy, Doctor of Physical and Mathematical Sciences;  
V.G. Korotkiy, Candidate of Technical Sciences; I.K. Klimovskiy,  
Candidate of Physical and Mathematical Sciences; V.S. Milynchuk  
(deceased), Doctor of Physical and Mathematical Sciences; A.Ye.  
Glashteyn, Doctor of Physical and Mathematical Sciences;  
Glushteyn, Doctor of Physical and Mathematical Sciences.

**Author:** S.L. Geras; Tech. Sci. I.V. Sarayeva.

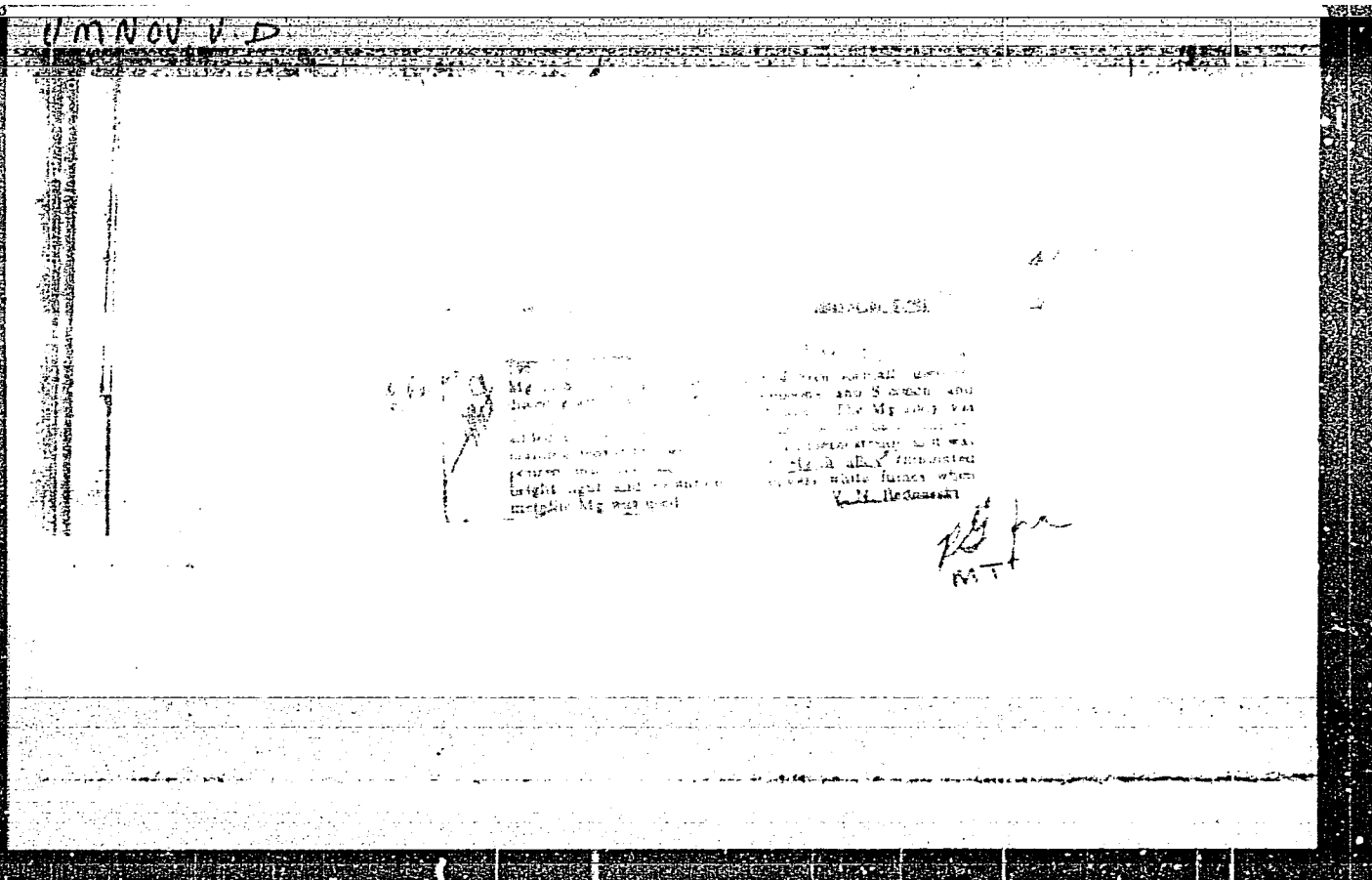
**Purpose:** This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel.

**COVERPAGE:** This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 16th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, diffusion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and studies of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration during determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and methods of electrochemical analysis.

Case 2/31

402	Kolborskiy, Yu. Ya., and M. K. Krizhnovskaya. Spectral Determination of Aluminum in Alloyed Steel With the Aid of Solutions
404	Kozarovskiy, A. G. Spectrum Microanalysis of High-alloy Steel and Heat-resistant Alloys
406	Krasnitsin, M. S. Spectrographic Determination of Titanium in <del>Elmoxyt</del> and <del>El-123</del> Types of Steel
410	Kuznetsov, K. S., G. D. Krivulza, V. I. Trofimova, and V. D. Danov. Studying the Flame Spectra of a Resonance Converter With the Aid of an IIS-51 Spectrophotometer
414	Slizn'ev, M. A. Shift of Calibration Curves in the Spectrum Analysis of Steel
417	Klibanov, G. I., M. I. Sarvova, and E. M. Vinichenko. Quantitative Spectral Determination of Traces of Elements in Lanthanophore-pure Zinc Sulfide

Card 21/31



Umnov, V.D.

24-12-17/24

AUTHORS: Goncharenko, N.I., Zaykov, S.T. Kravtsov, P.Ya.,  
Umnov, V.D. (Khar'kov).

TITLE: Use of ore-limestone briquettes in convertors.  
(Primeneniye rudoizvestnyakovykh briketov v konverternom  
proizvodstve).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh  
Nauk, 1957, No.12, pp.78-80 (USSR).

ABSTRACT: Use of oxygen in convertors with basic lining permits  
processing of open hearth pig containing up to 0.30% P  
and up to 0.08% S. Therefore, acceleration of the process  
of formation of liquid lime-iron slag during the blowing,  
which lasts only 12 to 15 minutes, is of great importance.  
On the suggestion of the Ukrainian Institute of Metals  
(Ukrainskiy Institut Metallov) several series of  
experiments were made in the shops of the imeni Petrovskiy  
Works and the Yenakiyev Works substituting iron ore  
and limestone by ore-limestone briquettes. The speeding  
up of the process of slag formation if such briquettes  
are used is attributed to the larger specific surface  
and the good mixing of the limestone and ore which, before  
briquetting, are crushed to a size of 1 to 3 mm. For  
Card 1/3 making the briquettes, rich powdery iron ore with a low

Use of ore-limestone briquettes in convertors.

24-12-17/24

content of silica is used. In one of the Works two series of experimental melts were made (60 melts, melting temperature  $1250^{\circ}\text{C}$ ) with ore-limestone briquettes of the following composition: 27.12% Fe, 38.74%  $\text{Fe}_2\text{O}_3$ , 2.55%  $\text{SiO}_2$ , 21.44% CaO, 0.72% MgO, 0.95%  $\text{Al}_2\text{O}_3$ , 0.12% MnO, 0.02% P, 0.022% S. The slag formation is so rapid that slag specimens taken from the convertor three minutes after the beginning of the blowing period were perfectly homogeneous in spite of the fact that they contained 32% CaO; the data given in Table 3 indicate that the basicity of the slag after three minutes blowing remained almost constant and this proves the full and rapid dissolution of the limestone in the slag. Rapid slag formation and a high reaction ability was also proved in the experiments at the Yenakiyevo Metallurgical Works. Due to the higher fluidity of the slags obtained with a briquette variant, the bauxite consumption is reduced by 55 to 60% and the specific consumption of liquid pig-iron is also lower, resulting in an increase in output of 1 to 1.6% and a reduction of the specific oxygen consumption. Thus, ore-lime briquettes substituting

Card 2/3

Use of ore-limestone briquettes in convertors.

24-12-17/24

all the admixtures used at present represent fundamentally a slag forming mixture and a cooling agent and such a substitution leads to simpler and easier operation of convertor shops.

There are 3 figures and 4 tables.

SUBMITTED: April 19, 1957.

AVAILABLE: Library of Congress.

Card 3/3

SOV/ 137-58-7-14188

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 7, p 32 (USSR)

AUTHORS: Garger, K. S. , Krivulya, G. D. , ~~Umnov, V. D. ,~~ Ul'yanov, D. P. ,  
Mamchits, K. A. , Petrov, S. A. , Sorokin, A. A.

TITLE: Automation of Converter process Control (Avtomatizatsiya kontrolya konverternykh protsessov)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957,  
Vol 18, pp 738-742

ABSTRACT: A brief presentation is made of the history of the development of control of Bessemer blow, first by visual inspection and later performed with the aid of a photoelectric cell and a spectroscope. There follows a description of monitoring with the aid of the differential photoelectric method as developed by the Dneprodzerzhinsk Evening Institute of Metallurgy in conjunction with the im. Dzerzhinskiy Metallurgical Plant, termed the W-diagram method because of the shape of the record produced. A description is provided of the means by which this method is applied; the results of the use of the method under shop conditions are presented, as are economic indices pertaining to its introduction and prospects for its development. M. L.

Card 1/1

1. Furnaces--Control systems 2. Photoelectric cells--Applications

AFANAS'YEV, S.G.; KOSTENETSKIY, O.N.; SHUMOV, M.M.; IVANOV, Ye.V.; PAVLOV, A.I.; GARGER, K.S.; KRIVULYA, G.D.; UMNOV, V.D.; UL'YANOV, D.P.; MAMCHITS, K.A.; PETROV, S.A.; SOROKIN, A.A.; FRIDMAN, Ye.L.; EPSHTEYN, Z.D.; IVANTSOV, G.P.; NETESIN, A.Ye.

Reports (brief annotations). Hmul. TSNIICM no.18/19:106-107 '57.  
(MIRA 11:4)

1. Zavod im. Petrovskogo (for Kostenetskiy). 2. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Shumov, Epshteyn, Ivantsov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut ogneporov (for Ivanov). 4. Stal'proyekt (for Pavlov). 5. Metallurgicheskii zavod im. Dzerzhinskogo (for Garger, Krivulya, Umov, Ul'yanov, Mamchits, Petrov, Sorokin). 6. Dnepropetrovskiy filial Gipromeza (for Fridman). 7. TSentral'nyy institut informatsii chernoy metallurgii (for Netesin)  
(Bessemer process)



*UMNOV, V.D.*  
ZAYKOV, S.T., kand. tekhn. nauk; KOROBOV, I.I., inzh.; KOSTENETSKIY,  
O.N., inzh.; KRAVTSOV, P.Ya., inzh.; LIFSHITS, S.I., kand. tekhn.  
nauk; RUBINSKIY, P.S., inzh.; UMNOV, V.D., inzh.

Using limestone-ore briquettes during oxygen blast through pig  
iron in converters. Biul. TSHIICHM no. 10:15-21 '58. (MIRA 11:7)  
(Bessemer process)

UMNOV, V. D.

Cand Tech Sci - (diss) "Study of several problems of control of converter smelting taking into account the effect of technological factors." Dnepropetrovsk, 1961. 14 pp; with diagrams; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Dnep Order of Labor Red Banner Metallurgical Inst imeni I. V. Stalin); 180 copies; price not given; (KJ, 7-61 sup, 247)

GARGER, K.S.; KRIVULYA, G.D.; TROFIMOVA, V.I.; UMNOV, V.D.

Use of a ISP-51 spectrograph in studying the flame spectrum of  
a Bessemer converter. Fiz.sbor. no.4:410-414 '58.

(MIRA 12:5)

1. Dneprodzerzhinskiy vecherniy metallurgicheskiy institut  
imeni Arsenicheva i Dneprovskiy metallurgicheskiy zavod imeni  
Dzerzhinskogo.

(Steel--Spectra)

SHNEYEROV, Ya.A., kand.tekhn.nauk; DERFEL', A.G., kand.tekhn.nauk; KOTIN,  
A.G., kand.tekhn.nauk; Prinimali uchastiye: ZAYTSEV, I.A.; KURAPIN,  
B.S.; LEVITASOV, Ya.M.; SUKACHEV, A.I.; TRET'YAKOV, Ye.V.; UMNOV,  
V.D.; SHUKSTUL'SKIY, I.B.

Reducing the consumption of ferromanganese in the making of open-  
hearth steel. Trudy Ukr. nauch.-issl. inst. met. no.7:103-114  
'61. (MIRA 14:11)  
(Steel--Metallurgy) (Ferromanganese)

Umnov, V. F.

TRANSLATION FROM: Referativnyy zhurnal, Elektrotehnika, 1957, 112-2-4512  
Nr 2, p. 292 (USSR)

AUTHORS: . Nomokonov, V. P., Gil'bershteyn, P. G., Umnov, V. F.

TITLE: CC-26-51Д Station Amplifiers for High Frequency Seismic  
Geophysical Exploration (Usiliteli stantsii SS-26-51 D  
dlya vysokochastotnoy seysmorazvedki)

PERIODICAL: V Sb.: Razvedochnaya i promyslovaya geofizika. Nr 15,  
Moscow, Gostoptekhizdat, 1956, pp. 81-83.

ABSTRACT: Amplifiers of the widely used CC-26-51Д stations can be  
used for high frequency (from 60 to 120 cps and higher) seismic  
geophysical exploration on the condition that the filters and  
output stages are changed. The converted filter and output stage  
circuits and their frequency characteristics are given. Low  
frequency attenuation amounts to 32 to 24 db (instead of 15 to  
17 db for stock amplifiers). The redesigned amplifiers can be  
used even in the 30 to 50 cps frequency range.

V.F.L.

Card 1/1

GIL'BERSHTEYN, P.G.; UMNOV, V.F.

Transportable seismic station for studying small depths in regions  
with difficult access. Trudy MGRI 36:96-102 '59, (MIRA 15:5)  
(Seismic prospecting)

SESSION NR: AP4005602

S/0286/63/000/022/0054/0055

AUTHOR: Gil'bershteyn, P. G.; Alferov, V. V.; Vasil'yev, A. M.; Posternak, I.; Levin, L. B.; Umnov, V. F.; Koloskov, I. A.

SUBJECT: Method for computing arrival time and phase of seismic waves for electronic digital computer processing. Class 42, no. 158732

SOURCE: Byul. izobret. i tovarn. znakov, no. 22, 1963, 54-55

INDEX TAGS: seismology, seismic wave, automatic data processing, data processing, seismic data, computer analysis, magnetic recording, electronic computation seismic data, linear interpolation, arrival time, phase

ABSTRACT: A method is described for computing arrival time and phase of seismic waves for processing time into a digital computer from multichannel correlated seismograms obtained by the oscillographic method or by an inked graph. Variable tape transport mechanism speeds are minimized as a readout accuracy factor by employing magnetic material to make the strokes marking both time and the arrival times and phases. These strokes are read out by magnetic heads, the number of pulses corresponding to the strokes for the time marks is summed, and with the

. 15 1/2"

ACCESSION NR: AP4005602

entrance of a pulse for the arrival or phase of a wave a linear interpolation is made in each of the channels of the distance between the two closest time mark pulses.

SUBMITTED: 11Sep62

DATE ACQ: 03Jan64

ENCL: 00

SUB CODE: AS

NO REF SOV: 000

OTHER: 000

Cerc 2/6



ALFEROV, V.V.; GIL'BERSHEYN, P.G.; POSTERNAK, Ya.I.; UMNNOV, V.F.

Unit for introducing seismic information into a digital computer.  
Geofiz. razved. no.16:54-74 '64.

(MIRA 18:2)

UMNOV, V. G.

Geology, and oil and gas potentials in the Zimnyaya Stavka field.  
Trudy Gos. NII no.8:127-136 '60. (MIRA 13:8)  
(Terek-Kuma Plain--Petroleum geology)  
(Terek-Kuma Plain--Gas, Natural--Geology)

UMNOV, V.G.

Geology, and oil and gas potentials of the Velichayevka field.  
Trudy Groz. NII no.8:137-147 '60. (MIRA 138)  
(Kuma Valley--Petroleum geology)  
(Kuma Valley--Gas, Natural--Geology)

UMNOV, V.G.

New principles for classifying oil and gas pools. Trudy Gruz.  
NII no.8:254-271 '60. (MIRA 138)  
(Oil fields--Classification) (Gas, Natural)

UMNOV, V.G.,

Effect of lithological changes on the distribution of petroleum  
in reservoirs and making maps of oil reservoirs. Geol. nefti i  
gaza 4 no. 3:21-25 Mr '60. (MIRA 13'12)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut.  
(Oil reservoir engineering)

UMNOV, V.I.

Universal cutting-tool holders. Stan. i instr. 29 no. 12:35-36  
D '58. (MIRA 11:12)  
(Metal-cutting tools)

IGLITSKIY, A., kandidat v masters po shakhmatam; UMNIOV, Ye., master po shakhmatam.

Member of the Communist Youth League is the chess champion of  
our country. IUn.tekh. 3 no.12:69-71 D '58. (MIRA 12:1)  
(Tal', Mikhail, 1937--)

IGLITSKIY, A., kandidat v mastera; UMNOV, Ye., master

Chess board. IUn.tekh. 3 no.1:76-77 Ja '59. (MIRA 12:1)  
(Chess problems)



IGLITSKIY, A., kand. v masters po shakhmatam; UMNOV, Ye., master po  
shakhmatam

Marx at the chess board. IUn.tekh. 3 no.7:70 J1 '59.  
(MIRA 13:8)

(Marx, Karl, 1818-1883)

IGLITSKIY, A., kandidat v masters po shakhmatam; UMNOV, Ye., master po  
shakhmatam.

Chess. IUn. tekhn. 4 no.10:73-75 0 '59.  
(Chess problems)

(MIRA 13:1)

IGLITSKIY, A.; UMNOV, Ye., master.

Chess. IUn.tekh. 5 no.8:76-78 Ag '61.  
(Chess)

(MIRA 14:12)

IGLITSKIY, A., kand.v mastera; UMNOV, Ye., master

How Alekhin conducted the game. IUn.tekh. 6 no.11:74-75 N '61.  
(MIRA 14:11)

(Chess)

IGLITSKIY, A., kandidat v mastera; UMNOV, Ye., master

Emmanuel Lasker. IUn.tekh. 7 no.11:74-76 N '62. (MIRA 15:12)  
(Chessmen)

IGLITSKIY, A., kand. v mastera; UMNOV, Ye., master

At the chessboard. IUn.tekh. 7 no.2:74-75 F '63.  
(Chess)

(MIRA 16:4)

УНИОН, т. 1.

5200. Vnezapnyye vy'rosy nalya i gaza v shakhtakh vnezrui i novyye sposoby  
vskrytiya i razrabotki odinotsnykh i nezastochistchen ykh agal'nykh plastov.  
M., 1954, 14 s. 20 sm. (Izve mol'noy prom-sti sssr. akad mol'noy brata i).  
100 ekz. E. Ta. - (54-57513)

SO: KNIZHNAYA LFTOPIS', Vol. 1, 1955

UMNOV, Yu. I.

"Unexpected Ejections of Coal and Gas in the Hungarian Shafts and New Methods for the Discovery and Working of Single and Unprotected Coal Strata." Cand Tech Sci, Acad of Coal Industry, Min Coal Industry USSR, Moscow, 1954. (KL, No 4, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55



1ST AND 2ND EDITIONS
100 AND 4TH EDITIONS

PROCESSES AND PROPERTIES INDEX

BC

A-3

Secondary and tertiary amines containing the furfuryl group. I. Furfurylamine and furfurylamine. A. I. Upjohn (*J. Gen. Chem. Res.*, 1940, 22, 560-570).—Furfurylamine is reduced (22 in aq. NaOH) 8 hr. at 75° to furfurylamine (22, b.p. 145°-146°/30 mm. (hydrochloride; solid), from which furfurylamine is obtained, m.p. 58°, is obtained; (22) yields an azo-dye,  $\text{CH}_3\text{R}/\text{NH}-\text{C}_6\text{H}_4-\text{N}(\text{H})-\text{C}_6\text{H}_4-\text{SO}_3\text{Na}$  (23) with  $\text{p}-\text{SO}_3\text{Na}-\text{C}_6\text{H}_4-\text{N}_2\text{Cl}$  (24).  $\text{NaNH}_2$  and a solution of (22) in  $\text{H}_2\text{O}$  yield furfurylamine (22), b.p. 145°-146°/30 mm. This gives *p*-nitrofurfurylamine, m.p. 70°-75°, with  $\text{MNO}_2$ . With  $\text{PhCHO}$  in presence of 50%  $\text{HCl}$  (22) yields an analogue of malachite-green, and with (22) gives an analogue of helianthin. R. T.

ASM-55A METALLURGICAL LITERATURE CLASSIFICATION

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<p>Secondary and tertiary arylamines containing the furfuryl group. I. Phenylfurfurylamine and ethylphenylfurfurylamine. A. J. Umnova. <i>J. Gen. Chem.</i> (U. S. S. R.) 10, 569-76 (1940); -2-Furaldehyde and PhNH<sub>2</sub> give C<sub>6</sub>H<sub>5</sub>OCH<sub>2</sub>NPh. Reduction of this with Na and EtOH gives 30% phenylfurfurylamine (I), b<sub>p</sub> 147-8°, d<sub>4</sub><sup>20</sup> 1.1250, d<sub>4</sub><sup>25</sup> 1.1004, d<sub>4</sub><sup>30</sup> 1.1119, parachor, calcd. 404, found, 397.5. Reduction with Zn and strong alkali gives 40% I which forms HCl and (CO<sub>2</sub>H)<sub>2</sub> salts. With HNO<sub>3</sub> it gives 100% phenylfurfurylnitrosamine, m. 24°. This is not isomerized to the p-nitroso compd. when treated with HCl in ether. The Na salt of I and EtBr or EtI give 83% ethylphenylfurfurylamine (II), b<sub>p</sub> 147-7.5°, b<sub>p</sub> 134-4.5°, d<sub>4</sub><sup>20</sup> 1.0833, d<sub>4</sub><sup>25</sup> 1.0684, d<sub>4</sub><sup>30</sup> 1.0870, parachor, calcd. 482.0, found, 473.5. The HCl salt cannot be purified. With HNO<sub>3</sub>, II gives p-nitrosoethylphenylfurfurylamine, m. 75-6°. Both I and II react with diazotized NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na to give poor yields of indicators analogous to methyl orange, and II condenses with H<sub>2</sub>SO<sub>4</sub> to give a dye analogous to malachite green. H. M. Leicester</p>																																																																																																			
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CHENOV, A. I.

"Secondary and Tertiary Arylamines Containing a Furfuryl Group" Part I. "Phenylfurfurylamine and Ethylphenylfurfurylamine," Zhur. Ooshch. Khim., 10, Nos, 5-6, 1940. Laboratory of Organic Chemistry, Leningrad State University.

Report U-1526, 24 Oct 51